

Anchem Sales

120 Stronach Cres., London, ON, N5V 3A1 Canada

**PRODUCT NAME: Ancool 100****GEN-AN1000****SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION**

MANUFACTURER: Same as above
PREPARED BY: Production Department
VERSION DATE: 22-Oct-08
TELEPHONE NO.: (519) 451-1614
EMERGENCY PHONE NO.: (613) 996-6666
CHEMICAL FAMILY: Alcohols/Esters/Alkaloi **CHEMICAL FORMULA:** Not Available
MOLECULAR WEIGHT: Not Available **MATERIAL USE:** Heat transfer fluid for ground source heating systems.
SYNONYMS: Denatured Ethyl Alcohol.

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Ethyl Alcohol	94.7-98.7	64-17-5	7000 (Rabbit/Oral)	31823 (Rat/Dermal)	1000
Pine Oil	.025	N.Av.	N.Av.	N.Av.	N.Av.
FD&C Blue Dye or Methylene Blue	.05g/100L	N.Av.	N.Av.	N.Av.	N.Av.
Alkyl Dimethylbenzyl Ammonium Chloride	>0.025	N.Av.	N.Av.	N.Av.	N.Av.
Water	Balance	N.Av.	N.Av.	N.Av.	N.Av.
Denatonium Benzoate 003734336	700mg/10 0L	N.Av.	N.Av.	N.Av.	N.Av.

SECTION 03: HAZARD IDENTIFICATION**ROUTE OF ENTRY**

Eyes: Severe eye irritant. Vapours can irritate eyes. Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days. Damage is usually mild to moderate conjunctivitis, mainly as redness of the conjunctivitis.
Skin: No adverse effects with normal skin. However, potentially harmful amounts of material may be absorbed across markedly abraded skin when contact is sustained, particularly in children.
Inhalation: High vapour concentrations may cause a burning sensation in the throat and nose, stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur.
Ingestion: Toxic.

SECTION 04: FIRSTAID

Skin Contact: Flush skin with water. Wash contaminated clothing before reuse.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Inhalation, Acute Remove person to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Do NOT INDUCE VOMITING. Have victim drink about 250 ml (8 oz) of water to dilute material in stomach. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek medical attention immediately.

Notes to physician: Symptoms of ethanol intoxication vary with the alcohol level of the blood. Mild alcohol intoxication occurs at blood levels between 0.05%-0.15% and approximately 25% of individuals will show signs of intoxication at these levels. Above 0.15% the person is delicately under the influence of ethanol and 50-95% of individuals at this level are clinically intoxicated. Severe poisoning occurs when the blood ethanol level is 0.3%-0.5%. Above 0.5% the individual will be comatose and death can occur. The unabsorbed ethanol should be removed by gastric lavage and intubating the patient to prevent aspiration. Avoid the use of depressant drugs or the excessive administration of fluids.

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABLE? Yes

IF YES, UNDER WHICH CONDITIONS?

FLASH POINT (TCC) (C): 16

FLAMMABLE LIMITS: **LEL(% BY VOL.):** 19 **UEL(% BY VOL.):** 3.3

AUTO IGNITION TEMPERATURE (C) 422

EXTINGUISHING MEDIA: Apply alcohol-type or all-purpose-type foams by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires. Water is generally unsuitable and it may help to spread the fire.

SPECIAL PROCEDURES: Use water spray to cool fire-exposed containers and structures. Use water spray to disperse vapours; reignition is possible. Use self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Not Available

UNUSUAL FIRE AND EXPLOSION HAZARDS Vapours form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from handling point.

SENSITIVITY TO STATIC DISCHARGE Not Available

SENSITIVITY TO MECHANICAL IMPACT: Not Available

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Contain spilled material. Provide adequate ventilation and protective equipment. Remove sources of heat, sparks or flames. Spill should be collected in suitable containers or absorbed on a suitable absorbent material for subsequent disposal.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Storage Requirements

Use only non sparking bung wrenches and tools. Keep in a cool dry place. Keep container closed when not in use. Keep away from heat sparks and flame.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES/TYPE: Impervious chemical resistant gloves.

RESPIRATOR/TYPE: A NIOSH/MSHA respirator with organic vapor cartridge.

EYE/TYPE: Safety glasses.

OTHER/TYPE: Eye bath, safety shower.

ENGINEERING CONTROL Not Available

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE/APPEARANCE: Liquid (Blue)

ODOUR: Lower Alcohol **ODOUR THRESHOLD:** 0.1-5100

VAPOUR PRESSURE (mm Hg @ 20C): 5.7 **VAPOUR DENSITY (Air=1):** 1.59

EVAPORATION RATE (Ether = 1): 1.7 **SPECIFIC GRAVITY:** 0.811

BOILING POINT (C):	78.5	FREEZING POINT (C):	-114.1
Ph (% SOLUTION):	N. App.	% VOLATILE (WT):	93.7
SOLUBILITY IN WATER (% W/W)	100%		

SECTION 10: STABILITY AND REACTIVITY**CHEMICALLY STABLE?** Yes**IF NO, UNDER WHICH CONDITIONS?:** Avoid sources of ignition.**INCOMPATIBILITY WITH OTHER SUBSTANCES** Yes**IF YES, WITH WHICH ONES:** Oxidizing materials**SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS** None currently known.**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning can produce carbon monoxide and/or carbon dioxide.**SECTION 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMIT OF MATERIAL	1000ppm (TLV)
LC 50 OF MATERIAL, SPECIES AND ROUTE	31 823 ppm (Rat-4hrs)
LD 50 OF MATERIAL, SPECIES AND ROUTE	7000 mg/kg (Rabbit/Oral)
CARCINOGENICITY OF MATERIAL	N. Av.
REPRODUCTIVE EFFECTS:	N. Av.
IRRITANCY OF MATERIAL	N. Av.
SENSITIZING CAPABILITY OF MATERIAL	N. Av.
SYNERGISTIC MATERIALS	N. Av.

SECTION 12: ECOLOGICAL INFORMATION**AQUATIC TOXICITY:** N. Av.**SECTION 13: DISPOSAL CONSIDERATIONS****WASTE DISPOSAL:** Waste material should be disposed of in an approved incinerator or in a designated landfill site, in compliance with all federal, provincial and local government regulations.**SECTION 14: TRANSPORT INFORMATION**

TDG CLASSIFICATION Class 3, ALCOHOL N.O.S. (Ethyl Alcohol)
UN NUMBER: 1987
PACKING GROUP: II

Special Provisions for Transport**SECTION 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION B-2, D-2B
Flammable liquid with a flash point lower than 37.8C. Material causing other toxic effects (TOXIC).

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available
N.App. / N.Ap. = Not Applicable

DISCLAIMER: Although the information herein is to the best of our knowledge accurate, no guarantee expressed or implied, is made regarding the information or the performance of any product. We assume no liability for incidental or direct damages of any kind, no matter what, including negligence.

SOURCES: Supplier MSDS

For updated copies of an MSDS, please contact Anchem Sales at the address/phone number on Page 1 or fax the MSDS Co-ordinator at (519) 451-4593.

LAST PAGE

Form 074 Issued Mar/06